

1 those current standards. If the proposed rule is  
2 approved, we could lose the Clean Air Act's  
3 sweeping improvements to the air we breathe that  
4 we've benefited from over the last several decades  
5 thereby putting thousands of lives that are saved  
6 each year at risk, because EPA will no longer be  
7 able to use key scientific research.

8 PSR's mission is very similar to EPA's stated  
9 mission "to protect human health and the  
10 environment." To accomplish these objectives, we  
11 must protect the scientific integrity of the EPA.  
12 Physicians for Social Responsibility thus,  
13 strongly opposes the EPA's deceptively named  
14 proposal, "Strengthening Transparency in  
15 Regulatory Science." Thank you.

16

17 MS. HUBBARD: Thank you.

18 MS. STOBERT: Speaker 29, Tess Dernbach, and  
19 Speaker 30, Mary Angly. If you come to the  
20 speakers' table. Is Mary Angly in the room?  
21 Okay, we'll come back to her at the end.

22 MS. DERNBACH: My name is Tess Dernbach, T-E-S-S,

1 D-E-R-N-B-A-C-H. I am a third-year law student  
2 at Columbia Law School and a legal intern at  
3 Earthjustice, speaking on behalf of Earthjustice.  
4 EPA's proposed rule, "Strengthening Transparency  
5 in Regulatory Science," requires a choice between  
6 breaching medical privacy or ignoring data for  
7 rulemaking decisions altogether. Breaching a  
8 patient's medical confidentiality can have severe  
9 and wide-ranging consequences for patients' lives  
10 and livelihoods. Various groups have often tried  
11 to access patient data for retaliatory purposes.  
12 For example, when pork industry associates tried  
13 to access the identities of individuals who had  
14 participated in a study by the University of North  
15 Carolina Professor Steve Wing, about the harmful  
16 health impacts of hog farming, or when the  
17 Department of Justice tried to access names of  
18 women who had late term abortions for use in  
19 litigation challenging the Partial Birth Abortion  
20 Ban Act. Employees' health information can be and  
21 is used against them by employers as an excuse for  
22 termination or other poor treatment. Moreover,

1 when the medical confidentiality of research  
2 participants is breached, people are deterred from  
3 participating in research altogether. Medical  
4 confidentiality is a necessary element of modern  
5 medicine. Patients must feel safe telling their  
6 doctors the most intimate details of their lives.  
7 The expectation of confidentiality fosters  
8 openness and trust between doctors and patients  
9 and is crucial to the delivery of medicine and  
10 conducting clinical research. Courts recognize,  
11 too, the importance of medical confidentiality and  
12 privacy. In 1928, Justice Brandeis described the  
13 right of privacy as: "The most comprehensive of  
14 rights and the right most valued by civilized  
15 men." At least five circuit courts have  
16 recognized an individual's constitutional interest  
17 in or right to the privacy of their medical  
18 information. In *Farnsworth v Procter and Gamble*  
19 in the 11th Circuit, the court recognized that:  
20 "Even without an express guarantee of  
21 confidentiality, there is still an expectation,  
22 not unjustified, that when highly personal and

1 potential embarrassing information is given for  
2 the sake of medical information it will remain  
3 private." This right to medical privacy can  
4 extend to beyond publication of medical data to  
5 situations where medical information is available  
6 to those without a legitimate interest in it.  
7 See, for example, Tucson Women's Clinic v Eden in  
8 the 9th Circuit, where the court observed that  
9 even if safeguards against public disclosure were  
10 adequate, the lack of safeguards against release  
11 of information to government employees who have no  
12 need for the information could create a violation  
13 of the right to privacy.  
14 The EPA claims, vaguely, that confidential data  
15 will be protected by redaction or de-  
16 identification. However, these mechanisms are  
17 entirely inadequate to maintain patient  
18 confidentiality. Latanya Sweeney, a Harvard  
19 Professor of Government and Technology, found in  
20 her study simple demographics often identify  
21 people uniquely that she was able to identify 87%  
22 of people in the United States with only their

1 gender, zip code and birth date. She has also  
2 found particular problems in patient  
3 confidentiality de-identification observing that  
4 in many healthcare data sets there will be unique  
5 data about people that can be used to identify  
6 them even when they are not explicitly identified  
7 in the data set. Sweeney found that even without  
8 identifying data in health data sets: "The  
9 remaining data can be used to re-identify  
10 individuals by linking or matching the data to  
11 other databases or by looking at unique  
12 characteristics found in the fields and records of  
13 the database itself."

14 Paul Ohm from the Georgetown Law School found in  
15 his pivotal work: *Broken Promises of Privacy:*  
16 *Responding to the Surprising Failure of*  
17 *Anonymization*, that using traditional, personally  
18 identifiable information focused anonymization  
19 techniques, any data that is even minutely useful  
20 can never be perfectly anonymous. These studies  
21 seriously undermine government claims that de-  
22 identifying data will provide adequate privacy for

1 patient data contained within research studies.  
2 Because of these reasons and those given before  
3 me, I strongly urge EPA to revoke the proposed  
4 rule immediately. Thank you.

5 MS. HUBBARD: Thank you.

6 MS. ANGLY: Hello, my name is Mary Angly and I'm  
7 interning for the organization Physicians for  
8 Social Responsibility and I've come to speak  
9 against the proposed rule, "Strengthening  
10 Transparency in Regulatory Science." Medical  
11 studies, clinical reports, and real-world field  
12 studies all include data and information that  
13 cannot be made public without violating  
14 confidentiality in patient protection laws. The  
15 proposed rule implies that these studies are not  
16 transparent because researchers necessarily  
17 suppress names and other identifying information  
18 about patients whose health information is  
19 relevant to study findings. Releasing individual  
20 participants' data to the public would violate  
21 confidentiality requirements legally mandated by  
22 the IRB and/or by HIPAA. By restricting these

1 studies, the proposed rule would essentially force  
2 the EPA to base many of its regulatory decisions  
3 on industry-sponsored studies and this rule could  
4 have huge environmental and public health  
5 implications. Despite a supposed scientific  
6 process, the funding source for a study can have  
7 significant implications on study findings. For  
8 example, in a review of research into the health  
9 effects of EPA an evaluation of 115 relevant  
10 studies was conducted in 2009. The review found  
11 that 94% of the publically funded studies found  
12 that chemicals have harmful effects whereas none  
13 of the industry-backed studies found these same  
14 findings. This is a huge disparity that cannot  
15 have occurred due to chance alone. Successful  
16 regulatory policies can have huge and quantifiable  
17 effects on exposure levels in human health.  
18 Biannually, the CDC collects data recording the  
19 blood and urine levels of 265 chemicals in people  
20 across the country. Longitudinal data can be used  
21 to visualize falling exposure levels and thus not  
22 measure the impact of a policy. For instance,

1 following the 1970's era lead regulations, 2009  
2 blood lead levels were 8% of 1980 levels, which is  
3 a compelling example of a successful public  
4 benefit that occurred as a result of regulatory  
5 efforts. This is especially important when one  
6 considers that the detrimental effects of lead  
7 exposure are well known and well documented. Lead  
8 exposures leading to a blood concentration of 1  
9 mcg/dL are correlated with an IQ loss of about 0.2  
10 points. Each IQ point is estimated to raise  
11 worker productivity about 2%. Moral arguments  
12 aside, when considered from a population  
13 perspective, lead regulation has had huge economic  
14 benefits. A review of the EPA's archives shows  
15 that much of the original clinical research that  
16 formed the EPA's decision to regulate lead would  
17 have contained private health information. Under  
18 the proposed rule many of these studies would not  
19 have been able to be taken into consideration  
20 which is why it's so important that these studies  
21 are allowed to regulate future chemicals.  
22 Although lead specifically, and its health effects



1 are well known and well documented, my fear is  
2 that the future regulation of dangerous chemicals  
3 will be prevented due to the restrictive nature of  
4 this rule. Barring the use of major health  
5 studies under the veil of transparency will have  
6 huge and detrimental effects on the breadth and  
7 validity of the sources the EPA is able to  
8 consider when making regulatory decisions.  
9 Dangerous chemicals will not be able to be  
10 adequately regulated if the scientific processes  
11 are stymied.

12 I urge you to consider the health of this country  
13 when deciding whether or not to implement this  
14 rule. If the health implications are not enough  
15 to prevent the enactment, please consider the  
16 economic implications. The cornerstone of a  
17 healthy and productive population is a healthy  
18 environment. This rule would pose a serious  
19 barrier to the EPA's ability to effectively  
20 regulate. The power of landmark laws defined to  
21 protect human health such as the Clean Air Act,  
22 Safe Drinking Water Act, and Toxic Substances

1 Control Act, could be significantly undermined if  
2 this rule comes to fruition. Thank you for your  
3 time.

4 MS. HUBBARD: Thank you.

5 MS. STOBERT: Speaker 31, Brenda Munive, and  
6 Speaker 32, George Thurston, if you would come to  
7 the speakers' table. Speaker 33, Brittany Meyer,  
8 and Speaker 34, Adam Spanier, if you would come to  
9 the on-deck seating.

10 MS. MUNIVE: Good afternoon. My name is Brenda  
11 Munive and I am currently interning with the  
12 nonprofit organization called Physicians for  
13 Social Responsibility. I am a recent graduate of  
14 the University of California, Santa Barbara, with  
15 degrees in Environmental Studies and  
16 Communication. I am testifying today to voice my  
17 opposition to the EPA's proposed rule,  
18 "Strengthening Transparency in Regulatory  
19 Science." I believe that scientific transparency  
20 is critical. Scientists, policy makers, and the  
21 public alike must all be able to trust and rely  
22 upon the scientific evidence that shapes our

1 society and the extent of human knowledge.

2 However, I believe the EPA's proposed rule instead

3 represents a serious misunderstanding of the

4 institution of science. Furthermore, I believe

5 that the proposed rule risks unnecessarily

6 excluding valid scientific evidence from informing

7 EPA policy, and therefore harms our fellow

8 Americans through the creation of ineffective

9 policies. The nature of the scientific field is

10 unique. While most professions are motivated by

11 political, economic or societal interests,

12 scientists are motivated by seeking truth.

13 Scientists perform research with the sole

14 objective of uncovering the reality of how our

15 world operates and gain status and recognition by

16 succeeding in that goal. Top scientists are

17 granted tenure or the assurance they cannot be

18 fired from their position for whatever reason.

19 Tenure guarantees scientists that they will not

20 lose their position even if their research points

21 to facts that are controversial or at odds with

22 the current political societal climate. For these

1 reasons, ideally, they are not suspect to the same  
2 biases as most of the public. To prove this point  
3 it is helpful to look at the four norms of  
4 scientists as explained by renowned sociologist,  
5 Robert Merton. These are: Universalism, or the  
6 idea that truth applies to all regardless of  
7 belief; communalism -- the fact that all  
8 scientific knowledge belongs to the public;  
9 disinterestedness -- the fact that scientists are  
10 not concerned with the outcome of the research,  
11 only that it is factual; and organized skepticism  
12 or the tendency to be doubtful of any research to  
13 ensuring the deep truth. These norms describe the  
14 ideal foundation on which scientists and their  
15 research operate. Because of communalism, we can  
16 be confident that scientific research is as open  
17 as possible. Being intentionally secretive  
18 violates this ideal, so critical data must be  
19 accurately presented. This norm does not mean  
20 that all data is presented, however. Minute  
21 details, such as the identities of the subjects,  
22 are usually withheld in research studies of all

1 types to protect privacy and ensure participation  
2 -- or, encourage participation. It is important  
3 to emphasize that these omissions do not diminish  
4 the quality or the outcome of the research, but  
5 are made in the interest of the well-being of the  
6 participants. Because of this intrusiveness, the  
7 public can be confident that scientific research  
8 is virtually free of any bias favoring one agenda,  
9 and because of organized skepticism, scientific  
10 research is subjected to heavy review and fact  
11 checking before it is published in a scientific  
12 journal, so the public can be confident that  
13 published research is factually sound. Of course,  
14 there are exceptions to these ideals. For  
15 example, the norm of disinterestedness could be  
16 jeopardized if a scientist is hired by an outside  
17 party such as a company or noted member of the  
18 industry. The outside party introduces a monetary  
19 benefit and a desired outcome for the research,  
20 putting unconventional pressure on the scientist  
21 to fulfill the desires of whoever hires them. If  
22 the EPA's proposed rule is enacted, industry

1 funded research could comprise a disproportionate  
2 amount of what informs EPA policies, giving the  
3 industry, and not the scientific community, a  
4 large degree of input in shaping environmental  
5 protections.

6 Based on this knowledge, the proposed EPA rule is  
7 unnecessary. Mandating that underlying data be  
8 made public in order for scientific research to be  
9 utilized in informing EPA policies, attempts to  
10 increase transparency but fails to recognize that  
11 scientists already take thorough and exhaustive  
12 steps to assure their published research is  
13 unbiased, truthful and as transparent as possible.  
14 Research that does not meet these standards is  
15 rejected by the scientific community. The rule  
16 would restrict valid scientific data, particularly  
17 within health research where patient  
18 confidentiality mandates that identifying  
19 information remain anonymous. The result would be  
20 ineffective and harmful policies that could allow  
21 for practices and chemicals that genuinely harm  
22 our nation to remain rampant and unregulated.

1 This outcome would benefit no one and runs  
2 contrary to the EPA's mission of protecting public  
3 health and the environment. Furthermore, a  
4 healthy economy depends on healthy communities.  
5 For these reasons, I implore the EPA to reconsider  
6 enacting this rule. Thank you for this  
7 opportunity to present my testimony.

8 MS. HUBBARD: Thank you.

9 MR. THURSTON: Good afternoon, I'm George  
10 Thurston. I'm a professor at the New York  
11 University School of Medicine. Today I'm here  
12 representing the International Society for  
13 Environmental Epidemiology, the ISEE, which  
14 includes researchers who study environmental  
15 causes of ill health including ambient air  
16 pollution subject to the National Ambient Air  
17 Quality Standards, or NAAQS, promulgated by the  
18 EPA, as well as its standards for heavy metals,  
19 pesticides, drinking water and other environmental  
20 contaminants. As such, our members have supplied  
21 a substantial part of the research that is the  
22 basis of those standards. We strongly oppose the

1 implementation of EPA's proposed changes to the  
2 way that studies are considered in setting such  
3 standards. Based on an incorrect interpretation  
4 of transparency and replication in science, the  
5 proposed rule would deprive policy makers of the  
6 real-world epidemiological evidence based on real  
7 exposures of real people that have been, and will  
8 continue to be, vital for future considerations of  
9 EPA's health-based standards. I especially want  
10 to highlight for you the manuscript that I wrote  
11 20 years ago entitled, "Band-Aiding the Release of  
12 Health Research Data: Issues and Implications,"  
13 and the article is already posted on EPA's SAB web  
14 page. This article considered a similar proposal  
15 that was made in July of 1997 as an amendment to  
16 the U.S. House Appropriations Bill without any  
17 hearings. The problems I raised at that time are  
18 directly relevant to today's transparency  
19 proposal.

20 First, the increased potential for compromise of  
21 medical record confidentiality. As you've heard  
22 before today in a time of big data it's all too



1 easy to crack any de-identification process,  
2 especially when lots of publically available  
3 spatial and environmental data are matched to  
4 people in the study as they are in the studies  
5 that EPA considers. The solving of the Golden  
6 State Killer case, for example, is one example  
7 where a combination of two separate databases  
8 allowed de-identification of an individual.

9 Second a loss of researchers' intellectual  
10 property. This can involve lost publications and  
11 academic career derailment. Third, the imposition  
12 of a government unfunded mandate. The USOMB has  
13 estimated that a similar law considered in the  
14 Congress, but that was never passed by the Senate,  
15 could cost the government up to 250 million  
16 dollars per year. There would also be the data  
17 prep costs to the scientists and their  
18 institutions.

19 Fourth, damage to future scientific research.  
20 When people no longer wish to enroll for fear that  
21 their medical data will be released, new  
22 scientific studies could be inhibited. Fifth, the

1 proposed rule will allow the EPA to ignore large  
2 portions of the scientific literature in decisions  
3 that are supposed to protect public health. In  
4 cases where key studies are excluded from the  
5 evaluation of environmental issue because of an  
6 inability to release study participants' private  
7 health records, the EPA may then ignore key  
8 scientific studies. This would diminish the  
9 evidence supporting protective health studies,  
10 potentially allowing the EPA to conclude that  
11 there's insufficient evidence to support proper  
12 health protective standards.

13 Sixth, the abuse of research data to undermine  
14 science credibility. This problem is likely the  
15 most dangerous aspect of this proposal. Past  
16 documented examples of abuse by consultants to a  
17 vested interest resulted when the state of Georgia  
18 set up an open records law and the R.J. Reynolds  
19 Company used it to obtain research data to attack  
20 study findings that the use of cartoon characters,  
21 such as Joe Camel, in tobacco advertising  
22 influenced children's product recognition. That

1 research was later validated in other studies but  
2 the damage was done and the physician involved  
3 left research for private practice. Thus, this  
4 data release approach has already been tried in  
5 the past and shown to be too easily abused by  
6 vested interests. There is also a tobacco  
7 connection to today's proposal. Just before the  
8 1997 open data amendment was presented to the  
9 House, there was a December 1996 memo from the  
10 consultant of the tobacco industry, from  
11 Christopher Horner, laying out a similar strategy  
12 to address federal agency science with respect to  
13 second-hand smoke including a now familiar call  
14 for science transparency.

15 Finally, there's no need for this rule.

16 Independent validation has already been conducted  
17 by groups such as the Health Effects Institute for  
18 air pollution studies, such as for the ACS and the  
19 Six Cities studies. Indeed, these are the studies  
20 mentioned by an earlier speaker, I believe it was  
21 Steven (sic) Milloy, and he incorrectly said that  
22 they were never released, they would never release

1 their data, and in fact they did release it. So,  
2 his testimony was incorrect. And whoever it was,  
3 I think it was Steven (sic) Milloy, but anyway,  
4 earlier speaker who said that Pope and Dockery had  
5 not released their data. They have done so and,  
6 in fact, it's an excellent example of how the  
7 system works. So, finally just to say such  
8 independent evaluations could easily be applied  
9 again to any new cases of concern for data  
10 validation without the above-noted risks. Thus,  
11 this dangerous rule seeks to needlessly solve a  
12 purported problem that just doesn't exist. Thank  
13 you.

14 MS. HUBBARD: Thank you.

15 MS. STOBERT: Speaker 33, Brittany Meyer, and  
16 Speaker 34, Adam Spanier, if you would come to the  
17 speakers' table. Speaker 35, Sean Moulton, and  
18 Speaker 36, Andrew Bergman, if you would come to  
19 the on-deck seating.

20 MS. MEYER: Hi. My name is Brittany Meyer and I  
21 am the Associate Director of Public Policy at the  
22 Michael J. Fox Foundation for Parkinson's

1 Research. I am here on behalf of the nearly one  
2 million people with Parkinson's disease in the  
3 United States who rely on the Environmental  
4 Protection Agency to safeguard their health and  
5 inform them about potential hazards in the  
6 environment.

7 For over the past ten years, we've learned a lot  
8 about the mechanisms of Parkinson's disease and  
9 now know that the condition is caused by both  
10 genetic and environmental factors. It is now very  
11 clear that when coupled with a genetic risk  
12 factor, exposure to several chemicals, most  
13 notably solvents and certain pesticides, can  
14 trigger the disease. Just eight weeks ago, a study  
15 out of Canada suggested that low-level exposure to  
16 pesticides disrupts cells in a way that mimics the  
17 effects of mutations known to cause Parkinson's.  
18 More research is needed to fully understand the  
19 mechanisms at work and how to prevent them.  
20 Many of the studies used to identify risk factors  
21 for Parkinson's disease are investigated via large  
22 population-based epidemiology studies and will be

1 impacted by EPA's proposal. I am going to  
2 highlight one clear example- though along with my  
3 health and science colleagues here today, we can  
4 provide hundreds of examples of studies that could  
5 be impacted.

6 A 2009 study used GPS to estimate participants'  
7 well-water contamination exposure from  
8 agricultural pesticides. The results showed that  
9 consuming well water from a private well located  
10 in an area with historical pesticide use resulted  
11 in an increased risk of Parkinson's disease. Due  
12 to the nature of wells - typically serving a  
13 relatively limited number of people within a very  
14 small radius - the detail needed to perform the  
15 study renders proper de-identification impossible.  
16 All one needs to know is that a certain person  
17 lives near a particular well along with a  
18 demographic detail such as their age, gender,  
19 race, etc., and privacy is at great risk.  
20 Data from studies like this cannot be de-  
21 identified to the degree needed to protect  
22 patient's identification while still providing the

1 amount of specificity needed to help a scientist  
2 trying to replicate the results. Obtaining consent  
3 is not a solution. Some people make the choice to  
4 not disclose their Parkinson's diagnosis for a  
5 variety of reasons including privacy concerns,  
6 fear of prejudice or retaliation at work, and  
7 others. It is simply unreasonable to put people  
8 in the position of outing their diagnosis or to  
9 decline to participate in a study that could  
10 someday find a cure for their condition.

11 Additionally, people who are willing to sign away  
12 their privacy and those who are not are different  
13 in ways we cannot predict or control for in study  
14 analysis.

15 The Michael J. Fox Foundation believes in open,  
16 reliable, and replicable science. We fund  
17 approximately 90 million dollars in research per  
18 year and hold our funded scientists to the highest  
19 standards. Our contracts require science studies  
20 to be peer reviewed and most require data to be as  
21 available as possible while protecting precious  
22 health data. We echo the call of our fellow public

1 health groups here today and the nearly seventy  
2 public health, science, academic, and medical  
3 groups who signed on to a joint statement calling  
4 for the rule to be abandoned for the sake of  
5 science and for our health. Thank you.

6 MS. HUBBARD: Thank you.

7 MR. SPANIER: Good afternoon, my name is Adam  
8 Spanier, S-P-A-N-I-E-R. I am a pediatrician and  
9 Associate Professor in the Department of  
10 Pediatrics at the University of Maryland School of  
11 Medicine. I'm also a member of the American  
12 Academy of Pediatrics, Council on Environmental  
13 Health Executive Committee. I'm here today on  
14 behalf of the American Academy of Pediatrics. The  
15 AAP strongly objects to EPA's proposed rule,  
16 "Strengthening Transparency in Regulatory  
17 Science." The proposal will require EPA to ignore  
18 the best available, peer-reviewed scientific  
19 evidence on pediatric and reproductive  
20 environmental health, may violate patient  
21 confidentiality, and could dampen scientific  
22 processes by creating barriers to the use of



1 quality research in EPA science. Children and  
2 pregnant women are disproportionately affected by  
3 environmental pollutants and changes. Between  
4 1990 and 2010, the Clean Air Act prevented over  
5 160,000 premature deaths, 54,000 cases of chronic  
6 bronchitis, 130,000 acute myocardial infarctions,  
7 1.7 million asthma exacerbations, 3.2 million lost  
8 school days and 13 million lost work days.

9 Landmark academic studies guided EPA to implement  
10 policies leading to these dramatically positive  
11 outcomes. However, EPA's proposed rule will no  
12 longer allow EPA scientists to use much of the  
13 scientific evidence that's brought on these life-  
14 saving regulatory changes.

15 Scientific studies used by EPA to make regulatory  
16 changes are already rigorously examined prior to  
17 being published in peer-reviewed scientific  
18 journals. Scientists not associated with the  
19 research study must review the study design to  
20 ensure that it is scientifically sound before the  
21 study can be published. Many of the studies that  
22 inform EPA policy to protect the health of

1 children and pregnant women are based on IRB  
2 approved studies of the health of human subjects  
3 that require data confidentiality. Such studies  
4 involve observing the longitudinal effects on  
5 reproductive and child health from exposures to  
6 lead, particulate matter and other toxic  
7 substances. Replicating such investigations for  
8 the purpose of providing open access data for EPA  
9 to use would be morally unacceptable as it would  
10 require exposing children to lead, ozone and other  
11 damaging pollution. It would also not be ethical  
12 to exempt the study participants from data  
13 confidentiality protections. By requiring  
14 reproducibility the rule may also exclude many  
15 landmark public health studies that were so  
16 scientifically rigorous and resource-intensive  
17 that they could not be reproduced, such as the  
18 Framingham Heart Study, a 70-year-long  
19 cardiovascular epidemiologic study. Requiring  
20 reproducibility may also exclude studies done  
21 after landmark ecologic events such as oil spills  
22 and natural disasters. This rule does not improve

1 the scientific merit of the studies used for EPA  
2 policies, and, instead, creates significant  
3 barriers to EPA's assessment of past, current and  
4 future scientific work. This proposed rule  
5 contravenes EPA's mission to ensure that American  
6 pregnant women, children and families have clean  
7 air, land and water, and the AAP strongly urges  
8 you to not move forward with it. Thank you.

9 MS. HUBBARD: Thank you.

10 MS. STOBERT: Speaker 35, Sean Moulton, and  
11 Speaker 36, Andrew Bergman, if you'll come to the  
12 speakers table. Before they speak I wanted to  
13 note that the time is now 2:39 and Speakers 35 and  
14 36 are the last two speakers here to speak during  
15 the afternoon session. So, at this time if  
16 there's any speakers currently registered for the  
17 evening session but would like to speak now, if  
18 you would go to the registration desk we can get  
19 you a speaker number. Go ahead.

20 MR. MOULTON: Good afternoon, my name is Sean  
21 Moulton, Senior Policy Analyst at the Project On  
22 Government Oversight, a national nonprofit,

1 nonpartisan, government accountability  
2 organization. Thank you for the opportunity to  
3 speak this afternoon. I'm here to express my  
4 organization's strong objections to the proposed  
5 rule, "Strengthening Transparency in Regulatory  
6 Science," and urge the Agency to withdraw it. In  
7 the proposed rule the Agency notes that the best  
8 available science must serve as the foundation for  
9 EPA's regulatory actions. It is hard to argue  
10 with that fundamental principle, but this policy  
11 won't make scientific information better, nor more  
12 available. Instead, the new rule will often mean  
13 the best available science is off limits to the  
14 Agency, create delays in rulemaking and result in  
15 greater litigation.

16 I'd like to focus primarily on the rulemaking  
17 process and first raise serious concerns about the  
18 insufficient development process that produced  
19 this rule, a rule that fundamentally changes what  
20 information can and cannot be used in future  
21 rulemakings is a major undertaking and requires a  
22 great deal of certainty and evidence, yet this

1 proposal offers no clear explanation of the  
2 precise problem, no supporting evidence, no  
3 studies establishing that EPA has an information  
4 problem, nor citations that the proposed standard  
5 has been successfully used before or that EPA  
6 understands what its impact will be on the  
7 regulatory process when implemented. Even if the  
8 Agency truly believes there is some deficiency in  
9 its information policies and procedures, this  
10 proposed rule is premature. The starting point  
11 should be conducting studies of the issue to  
12 better understand the scope of the problem, if  
13 there is one, and the best way to improve  
14 transparency of regulatory science. The Agency  
15 should allow the Science Advisory Board to fully  
16 investigate and offer specific recommendations  
17 before moving forward with any proposed rule.  
18 There are any number of steps that the EPA should  
19 be completing before rushing into a formal  
20 rulemaking. The incomplete foundations for this  
21 rule reveal themselves in the vague language and  
22 unclear standards. The rule does not specify how

1 the new standards will be implemented, what  
2 mechanisms will be made available to allow  
3 publishing of more detailed data. More  
4 importantly the rule doesn't address how it will  
5 fit into the legal requirements the Agency has  
6 under the Administrative Procedure Act or other  
7 environmental laws.

8 The proposed rule is being done at EPA's  
9 discretion with no statutory authority backing it  
10 up. So, should this policy come into conflict  
11 with statutory requirements under existing law,  
12 those laws take precedent, and laws governing  
13 rulemaking have a number of requirements that this  
14 proposed rule would be in conflict with. The  
15 Administrative Procedure Act makes clear that an  
16 Agency cannot engage in arbitrary, capricious  
17 actions or decisions in its rulemaking; while the  
18 Agency has authority in its given area, that  
19 authority is not absolute. The Agency must have  
20 clear and strong justifications for its actions.  
21 Given the lack of supporting evidence for this  
22 policy or a statutory requirement from Congress,

1 EPA will be hard pressed to prove that this  
2 untested standard is not arbitrary. Even if the  
3 rule isn't immediately dismissed under the APA,  
4 the EPA's requirements under other laws, such as  
5 the Clean Air Act, that it consider all available,  
6 or best available, science in rulemaking and this  
7 policy would be in direct conflict with those. If  
8 the Agency seeks to apply this new standard in  
9 areas ungoverned by such statutory requirements,  
10 it will result in a confusing patchwork of  
11 standards where a study may be available for  
12 consideration under a Clean Air Act rule or a TSCA  
13 rule, but that same study would not be  
14 considerable in another rule.

15 I wanted to note in a case before the U.S. Court  
16 of Appeals for D.C. around the availability of air  
17 quality data study information, the court  
18 addressed this very issue, stating that, "If the  
19 EPA and other governmental agencies could not rely  
20 on published studies without conducting an  
21 independent analysis of the enormous volume of raw  
22 data underlying them, then much plainly relevant

1 scientific information would become unavailable to  
2 EPA for use in setting standards to protect public  
3 health and the environment." Placing large  
4 portions of scientific research off limits simply  
5 goes against common sense. EPA should be able to  
6 use any and all available information to produce  
7 the best, most up-to-date rules. If a study is  
8 unreliable or flawed in some way, then the Agency  
9 can decide that based solely on that study's  
10 merits, and sometimes even flawed or partial  
11 studies can offer important insights that the EPA  
12 should benefit from.

13 We strongly urge EPA to withdraw this rule. Thank  
14 you very much for your time.

15 MS. HUBBARD: Thank you.

16 MR. BERGMAN: I'm Andrew Bergman, and I'm speaking  
17 today as the Special Environmental Advisor at the  
18 Project On Government Oversight, but I'm also  
19 currently a Ph.D. student in applied physics at  
20 Harvard University.

21 While the proposed "Strengthening Transparency in  
22 Regulatory Science" rule uses the words



1 "transparency" and "reproducibility" to project  
2 lofty goals, it's real effect will be to undermine  
3 the way that the EPA is able to rely on and even-  
4 handedly assess scientific studies for use in the  
5 rulemaking process. I'm here today to urge EPA to  
6 withdraw this rule. My colleague, Sean Moulton,  
7 has just addressed how the proposed rule conflicts  
8 with the EPA's regulatory process, and the  
9 statutory requirements underlying that process,  
10 but the rule will also have a direct impact on how  
11 the EPA approaches science.

12 The rule fails to properly address its two key  
13 considerations that will have a major impact on  
14 how it is implemented. First, the rule states that  
15 data relied on in making regulations must be made  
16 publically available, but it doesn't suggest a  
17 mechanism for how personally identifiable  
18 information or confidential business information  
19 would be handled.

20 This is an incredibly important issue, as so many  
21 studies that EPA uses rely on this type of  
22 confidential data. Yet it's reasonable to conclude

1 from the rule that, if it goes into effect, the  
2 EPA will no longer be able to use most  
3 longitudinal human health studies to craft public  
4 safeguards, even though those studies have been  
5 conducted by reputable researchers at academic  
6 institutions, and peer reviewed to ensure  
7 validity. Instead, they will be left with  
8 industry studies that more often use animal test  
9 subjects, which don't have any personal privacy  
10 concerns.

11 Second, while the rule refers to replicability of  
12 scientific findings, the background information  
13 supporting the rule focuses on scientific studies'  
14 reproducibility, which has a wholly different  
15 meaning in a scientific context. But because the  
16 rule itself says it must be possible to  
17 "replicate" studies' findings, we should assume  
18 that the rule intends the strongest possible  
19 meaning: that it must genuinely be possible to  
20 conduct all studies used in rulemaking again, from  
21 scratch, and obtain the same findings.  
22 The Agency uses many studies, however, such as

1 those that link leaded gasoline to brain damage in  
2 children or a study that found a link between fine  
3 particulate air pollution and premature deaths,  
4 that examine dangerous real-world exposures and  
5 cannot, of course, be safely repeated. Just  
6 because they can't, or shouldn't, be repeated,  
7 however, doesn't mean we should ignore the vital  
8 insights they provide. The knowledge we have  
9 gained from these tragedies can and should be used  
10 to help safeguard the public in the future.  
11 Without knowing the details of how these two  
12 provisions, central to the rule, will be  
13 implemented, commenters can't even begin to assess  
14 the wide-ranging outcomes of this rule. We can  
15 conclude that the result will be that large swaths  
16 of studies will be arbitrarily ruled out for use  
17 in future rulemakings.

18 The rule's constraints on the use of scientific  
19 studies mean that even the use of studies that  
20 don't end up being haphazardly tossed out by this  
21 rule will be hindered substantially. The CBO found  
22 that a policy very similar to the proposed rule,

1 when it was proposed as legislation, would  
2 significantly reduce the number of studies that  
3 EPA is able to rely on when issuing and proposing  
4 rules without a substantial input of funding--a  
5 major loss when Agency scientists already have the  
6 tools to conduct thorough assessments of studies  
7 they rely on.

8 The rule also puts the Agency in a position where  
9 it's forced to serve as an independent reviewer of  
10 all scientific data underlying studies it uses,  
11 which will again hamstring Agency scientists who  
12 have limited resources. When the EPA was sued over  
13 air quality standards for particulate matter and  
14 ozone during the George W. Bush administration,  
15 the U.S. Court of Appeals for the District of  
16 Columbia Circuit said a requirement to make public  
17 underlying data for the key studies used in  
18 rulemaking would be "impractical and unnecessary."  
19 The three-judge panel said: "If EPA and other  
20 governmental agencies could not rely on published  
21 studies without conducting an independent analysis  
22 of the enormous volume of raw data underlying

1   them, then much plainly relevant scientific  
2   information would become unavailable to EPA for  
3   use in setting standards to protect public health  
4   and the environment ...” Essentially, the judges  
5   concluded that a policy like the proposed rule  
6   wouldn't serve the Agency's purposes at all.  
7   Instead of arbitrarily slicing out broad types of  
8   studies from being cited in rulemaking, why not  
9   continue to give Agency scientists the ability, as  
10   they have had for decades, to comprehensively  
11   assess and compare the scientific evidence  
12   presented in a study and give weight to each study  
13   as a result of careful deliberation?  
14   If the EPA wants to address the accessibility of  
15   scientific studies and data, an important issue to  
16   scientists as well as members of the public, it  
17   should acknowledge that those efforts, which might  
18   include building a new public-facing platform or  
19   carefully considering certain types of standards,  
20   will amount to a years-long process and will  
21   require an enormous investment of Agency time and  
22   funding. That type of proposal shouldn't be made

1 in a brief proposed rule and should only be made  
2 if extensive studies demonstrate that there is a  
3 real need for an update to how scientific studies  
4 are used in Agency rulemaking.

5 The proposed, "Strengthening Transparency in  
6 Regulatory Science" rule, instead, gestures toward  
7 an unsubstantiated set of concerns. It's hard to  
8 conclude that its purpose is to do anything other  
9 than undermine Agency scientists' ability to use  
10 scientific studies and data to craft regulations,  
11 under EPA's statutory mandates, that protect  
12 public health. For this reason, I urge you again  
13 to withdraw the rule. Thank you for your time and  
14 for the opportunity to comment on this important  
15 proposal.

16 MS. HUBBARD: Thank you.

17 MS. STOBERT: Speaker 37a, Emma Glidesgame, and  
18 Speaker 38a, Jyotsna Pandey if you would come to  
19 the speakers' table. Speaker 39a, Patricia Cohen  
20 speaking on behalf of Tracy Woodruff, if you would  
21 come to the on-deck seating.

22 MS. GLIDESGAME: Good afternoon. My name is Emma

1 Gildesgame, G-I-L-D-E-S-G-A-M-E. I'm a Master of  
2 Environmental Management student at the Yale  
3 School of Forestry and Environmental Studies, and  
4 an intern with the National Parks Conservation  
5 Association. My comments today are my own. I'm  
6 here to express my strong opposition to the  
7 proposed, "Strengthening Transparency in  
8 Regulatory Science" rule, that would censor  
9 science and threaten the health of all Americans.  
10 Last week, many of us in D.C. awoke to alerts  
11 warning of potential contamination in our water  
12 system. We were told to boil water before  
13 drinking or brushing our teeth or to avoid tap  
14 water altogether. For those few days, stores sold  
15 out of bottle water, Starbucks stopped selling  
16 coffee, and public pool splash pads and water  
17 fountains went dry. In the face of an urgent  
18 public health risk we did not censor the science  
19 that told us that contamination in our water is a  
20 threat. To know that clean water is important we  
21 didn't need the health records of every person who  
22 participated in landmark studies that helped us

1 understand the effects of contaminated water on  
2 our bodies and brains. The science is real. It's  
3 not secret, it's been repeated. It's been peer  
4 reviewed, analyzed and reaffirmed by generations  
5 of experts.

6 Just as the residents of D.C. took precautionary  
7 actions to protect ourselves and our loved ones in  
8 the face of a potential public health threat, the  
9 EPA must be allowed to use the best available  
10 scientific data to accurately assess environmental  
11 and public health threats to protect all  
12 Americans. The Clean Air Act, Clean Water Act,  
13 Safe Drinking Water Act and other historic laws  
14 that helped the United States become a leader in  
15 environmental protection recognized something that  
16 we forget far too often: Human health is  
17 environmental health. They are one in the same.  
18 Pollutants in the air travel hundreds of miles to  
19 become pollutants in our lungs. Contaminated  
20 soils grow contaminated food. Toxic river water  
21 becomes toxic drinking water. At the same time,  
22 clean air builds stronger kids. Healthy rivers,



1 lakes and watersheds build healthy communities.  
2 Good environmental and public health policies rely  
3 on a strong backbone of good science. The  
4 proposed rule would eliminate many credible,  
5 respected, long-standing, peer-reviewed,  
6 scientific studies from EPA consideration because  
7 they rely on confidential health information which  
8 cannot be made public. This proposal allows  
9 politically appointed regulators to pick and  
10 choose which studies they want to consider and  
11 would force scientists to choose between their  
12 ethical obligation to protect their subjects'  
13 privacy and the obligation to contribute knowledge  
14 to apply to regulatory science. Using good  
15 science to make strong policy has made America  
16 great for decades. The EPA and other agencies  
17 have kept countless Americans healthier, safer and  
18 more prosperous by using science to inform  
19 conservative, proactive protections for human  
20 health and the environment. We have protected  
21 historic and cultural monuments like the Jefferson  
22 Memorial, Statue of Liberty and even the Capitol

1 Building from the corrosive power of acid rain.  
2 We have reduced smog and air pollution in national  
3 parks like Great Smoky Mountains, Joshua Tree and  
4 Yosemite. We have improved water quality from the  
5 Great Lakes to the Everglades. Thanks to the EPA,  
6 my peers and I were born into an era of healthier  
7 air, cleaner rivers, and safer drinking water than  
8 our parents. I hope that someday my children can  
9 say the same, and that is why today I am joining  
10 thousands of scientists and public health  
11 professionals all over the country in speaking out  
12 against this rule and asking you to stop it in its  
13 tracks. We are all counting on you to listen to  
14 the sound and transparent science the EPA has used  
15 for decades and we are counting on our medical  
16 records remaining private. I strongly urge the  
17 EPA to stop this radical proposal for the health  
18 and safety of all Americans. Thank you.

19 MS. HUBBARD: Thank you.

20 MS. PANDEY: Good afternoon, my name is Jyotsna  
21 Pandey, and I'm the Quality Manager for the  
22 American Institute of Biological Sciences. My

1 organization appreciates the opportunity to  
2 comment on the EPA proposed rule, "Strengthening  
3 Transparency in Regulatory Science." We thank EPA  
4 for extending the initial 30-day public comment  
5 period and scheduling this public hearing on the  
6 proposed rule. We support the objective of  
7 increased transparency in the rulemaking process.  
8 But, the proposed rule is inadequately defined and  
9 thus itself lacks transparency and appropriate  
10 public protections. We request the EPA rescind  
11 the proposed rule and initiate an open process for  
12 gathering the information required to more  
13 thoroughly articulate the proposed rule. Any  
14 proposal to increase transparency in the  
15 regulatory process must not arbitrarily exclude  
16 important scientific information from the  
17 decision-making process, nor can personal  
18 information about individuals, such as genetic  
19 information or health status be sacrificed. A  
20 failure to protect these data will hinder future  
21 scientific investigations of people who refuse to  
22 participate in recent studies if they are not

1 confident that their most personal information is  
2 protected. Importantly, scientific journals take  
3 steps to protect personal information. They are  
4 not aware of any secure way to mask or protect  
5 personally identifiable information in the public  
6 domain and therefore think that any rule requiring  
7 this information be made public is needlessly  
8 risky. These data are important, however, to  
9 informing the decision-making process and should  
10 not be excluded for rulemaking processes because  
11 they are not publically disclosed.

12 As far as this request for comment, EPA has  
13 solicited input and measures to "provide protected  
14 access to identifiable and sensitive data." This  
15 is a significant issue and one that EPA should  
16 fully understand prior to moving forward with any  
17 new rule. Time and expertise are required to  
18 identify and properly evaluate the feasibility,  
19 cost and effectiveness of potential actions. It  
20 is unlikely that EPA can effectively gather and  
21 evaluate this information in the time prescribed  
22 by the proposed rule. We recommend that EPA

1 initiate a formal request for public comment on  
2 this issue alone and use what it learns to help  
3 inform and guide any potential future rule on  
4 transparency.

5 High-quality, curated and vetted mega data are  
6 generally required for someone else to  
7 appropriately reanalyze or use data such as those  
8 that could be made available by the proposed rule.  
9 The proposal is silent on meta data standards and  
10 practices. This is a significant challenge and  
11 another major problem with the proposed rule. We  
12 support EPA's goal of conducting independent peer  
13 reviews of the science and data used to inform  
14 regulatory decisions but thinks the section lacks  
15 adequate specificity. Who will conduct and manage  
16 the peer review process? Will these reviews be  
17 managed by the Office of Research and Development  
18 or by the various regulatory offices within EPA?  
19 Does EPA have appropriate staffing, expertise and  
20 resources to manage these peer reviews? We  
21 recommend that EPA partner with scientific  
22 organizations and professional communities to

1 administer and manage these reviews. Such  
2 outsourcing and partnerships will help to ensure  
3 that EPA gains access to independent and highly  
4 qualified experts and to promote greater public  
5 confidence in the independence of these peer  
6 reviews. This kind of process for managing peer  
7 review will also allow EPA to more cost  
8 effectively, nimbly and rapidly conduct reviews as  
9 it will not require EPA to substantially increase  
10 staffing for the remaining reviews. Such a  
11 process would also provide EPA with greater  
12 capacity to conduct reviews on time skills that do  
13 not needlessly delay regulatory and rulemaking  
14 schedules. After reviewing this proposed rule the  
15 AIBS respectfully urges EPA to rescind the current  
16 proposal. We ask that EPA initiate a new  
17 transparent and interactive process with the  
18 scientific, public health and environmental  
19 management communities, as well as other  
20 appropriate stakeholders, to identify responsible  
21 and viable approaches for promoting greater  
22 understanding of the science and data used to

1 inform EPA decision-making. Thank you for your  
2 consideration of our request.

3 MS. HUBBARD: Thank you.

4 MS. STOBERT: Patricia Koman, if you'd come to the  
5 speakers' table.

6 MS. KOMAN: Good afternoon. My name is Patricia  
7 Koman, spelled K-O-M-A-N. I am speaking on behalf  
8 of Dr. Tracy Woodruff, W-O-O-D-R-U-F-F. Dr.  
9 Woodruff is a professor in the Department of  
10 OB/GYN and the Director of the Program on  
11 Reproductive Health and the Environment at the  
12 University of California, San Francisco. Dr.  
13 Woodruff is a PI, or Principle Investigator, for a  
14 Children's Environmental Health Center and she,  
15 along with 15 other principle investigators of  
16 other Children's Centers, have submitted comments  
17 to the EPA about this proposed rule in writing.  
18 They are concerned that the proposed rule will  
19 adversely affect EPA's ability to use science in  
20 decision-making and ultimately negatively  
21 influence protections for children's health.  
22 Research from Children's Centers contribute

1 significantly to the foundation of science that  
2 informs and supports the Agency's ability to  
3 protect the public health. The National Academy  
4 of Sciences highlighted that Children's Centers  
5 have led to an improved understanding of the  
6 environmental impacts on child health and  
7 development. Children's Centers research  
8 identified the critical contributions of  
9 environmental exposures to asthma, obesity, ADHD,  
10 cancer, autism and other childhood illnesses.  
11 This research has led to new direction, treatment  
12 and prevention strategies for these diseases  
13 including informing EPA standards for cleaner air  
14 which has improved the quality of life for  
15 children. Collectively, we have research data  
16 from thousands of participants across the country,  
17 including some of our most vulnerable populations,  
18 children and women in communities of color. To  
19 not use or consider studies that do not comply  
20 with the proposed rule is inconsistent with  
21 scientific principles and evidence-based policy  
22 and this would put the public's health at risk



1 from toxic chemicals. Institutional review boards  
2 require that we protect the privacy and  
3 confidentiality of our participants, but  
4 institutional review boards' requirements conflict  
5 with this rule's mandate to publically reveal  
6 individual level data. Data masking, coding and  
7 de-identification techniques have limitations,  
8 because re-identification of participants is still  
9 possible. We are especially concerned that the  
10 rule inappropriately codifies specific data  
11 analysis approaches such as dose response modeling  
12 and other scientific decisions that should be made  
13 on the basis of scientific judgment and empirical  
14 considerations. This will hinder scientific  
15 inquiry and lead to inaccurate results. As  
16 scientists, we value open science but the mandates  
17 laid out in this rule will not improve data  
18 sharing, replicability or transparency. Instead,  
19 implementation of this rule, especially  
20 retroactively, could lead to EPA excluding  
21 numerous relevant studies from policy decisions to  
22 the ultimate detriment of children's health. We

1 urge EPA not to move forward with this proposed  
2 rule.

3 Finally, I want to comment about this public  
4 hearing and its lack of access to all  
5 stakeholders. By not providing the ability to  
6 make comments remotely or virtually, EPA limits  
7 the public comments to those that have the  
8 financial resources to travel to Washington D.C.  
9 and limits the participation of populations that  
10 are going to be most affected by this rulemaking.  
11 This undermines civic engagement and conflicts  
12 with the principles of a fair democracy. This is  
13 not a technical issue, as U.S. EPA has made  
14 virtual public comment in the past.  
15 Finally, we urge EPA not to move forward with this  
16 proposed rule. Thank you.

17 MS. HUBBARD: Thank you.

18 MS. STOBERT: It's now 3:02 p.m. This was our  
19 last speaker for this session that we know of. We  
20 are going to repeat the request that if there is  
21 any speaker that has registered but is registered  
22 for the evening session, if you'd like to speak

1 now go to the registration desk and you will  
2 receive a speaker number for this session. We're  
3 going to wait a few minutes and see if there's  
4 anybody that decides to speak now. Otherwise, we  
5 will break until the 4:00 session starts.

6 MS. HUBBARD: And if I could just make a quick  
7 announcement, we do have a member of Congress who  
8 is on his way to speak who should be here shortly,  
9 so we won't go into recess quite yet, so if  
10 everyone could just remain in their seats if  
11 you're interested in hearing him speak, otherwise  
12 feel free to go on and head on out and then we'll  
13 go into recess after that.

14 MS. STOBERT: Sorry, Peter Ferrara, speaker 40a,  
15 if you would come to the speakers' table?

16 MR. FERRARA: Good afternoon. My name is Peter  
17 Ferrara, that's F-as in Frank, E-R-R-A-R-A. I'm  
18 the Senior Fellow for Legal Affairs at the  
19 Heartland Institute. We submitted our comments  
20 during the comment period online in response to  
21 the notice for public comment in rulemaking posted  
22 on April 30, 2018. EPA proposes the rule I am

1 commenting on intending the strengthen the  
2 transparency and integrity of EPA regulatory  
3 science. The proposed rule provides that EPA  
4 should ensure that the data and models underlying  
5 scientific studies pivotal to EPA regulations are  
6 publically available in a manner sufficient for  
7 independent validation, especially concerning  
8 regulations for which the public is likely to bear  
9 the cost of compliance. We applaud this proposed  
10 rule and find that governing statutes and  
11 executive orders, not to mention the basics of the  
12 scientific method, authorize the proposed rule and  
13 indeed have long required it. In not following  
14 the proposed rule in the past, EPA has been  
15 flouting the governing statutes and executive  
16 orders, departing from the scientific method and  
17 abusing its authority. The proposed rule provides  
18 that for science pivotal to significant regulatory  
19 action, EPA will ensure that the data and models  
20 underlying the science are publically available in  
21 a manner sufficient for validation and analysis.  
22 This new policy is needed because EPA admits to

1 having not previously implemented these policies  
2 and guidance in a world-best, robust and  
3 consistent manner.

4 Examples where EPA previously has fallen short  
5 include the public health research used to  
6 implement and defend the PM<sub>2.5</sub> particulate matter  
7 standards, the corporate average fuel economy  
8 standards, the ozone standards and carbon dioxide  
9 standards. EPA's admitted reliance on secret  
10 science occurs at a time when the publications  
11 *Nature*, *PLoS*, *Science*, *The Economist* and other  
12 report half or more of published research on  
13 public health issues cannot be replicated. This  
14 replication crisis is genuine and even more broad  
15 and critical than the sources cited by the EPA for  
16 this proposed rule are willing to admit. A  
17 scientific publishing industry has been created by  
18 lavish government funding of politically directed  
19 research. Examples of this include supposedly  
20 scientific studies finding human impact on the  
21 climate or an association between ozone and  
22 climate. It may take generations before the

1 effects of this corruption can be overcome. The  
2 root cause of EPA science malfunction has been  
3 corruption of EPA's peer review process. Peer  
4 review for the EPA has become power review with  
5 insiders typically armed with millions of dollars  
6 in government funding acting to censor and exclude  
7 scientists who disagree with the reigning  
8 political agenda. That perverts the whole point  
9 of peer review, turning it into a tool used to  
10 shut out anyone who disagrees, instead of a  
11 process forcing scientists to defend their work  
12 against critics. The more widespread replication  
13 crisis is proof that this disease has affected  
14 most of the world's leading science journals and  
15 even its National Academies of Sciences. One  
16 scientific finding that has been suppressed by the  
17 corruption of peer review was just singled out by  
18 EPA in its call for comments, is evidence of non-  
19 linearity in the concentration response function  
20 for many pollutants. The entire regulatory model  
21 is precariously perched on an invalid assumption  
22 of linearity and the resulting scientific crisis

1 continuing to build must now be openly faced,  
2 removed and regulations based on such science  
3 malfunction, or even outright corruption, must be  
4 revised and repealed entirely. EPA's new policy  
5 of scientific integrity and transparency should be  
6 applied to computer climate models that currently  
7 prevail in EPA's funded published and cited  
8 climate science. The continued use of default  
9 models, not consideration of alternatives or model  
10 uncertainty create a false scientific  
11 justification for EPA actions, policies and  
12 regulatory burdens.

13 So, we applaud this new proposed rule and  
14 encourage the EPA to implement it rapidly.

15 MS. HUBBARD: Thank you.

16 MS. STOBERT: Speaker 41a, Liz Hitchcock, and  
17 Speaker 42a, Benjamin Kirby, if you would come to  
18 the speakers' table.

19 MS. HITCHCOCK: Good afternoon, my name is Liz  
20 Hitchcock, and I direct Safer Chemicals Healthy  
21 Families. We lead a coalition of hundreds of  
22 local, state and national groups. This variety of

1 groups of labor, consumer, parents, educators,  
2 scientists, health care providers, health-affected  
3 and others shares the concern about the growing  
4 recognition of the links between our exposures to  
5 toxic chemicals and the increases in cancers and  
6 other chronic illnesses and in learning and  
7 developmental disabilities, and we share a  
8 commitment to reducing and eliminating exposures  
9 to toxic chemicals in our homes, our places of  
10 work, and the products that we use every day. I  
11 thank the Agency for responding to the large  
12 number of public comments that objected to the  
13 length of the initial comment period by extending  
14 it and for scheduling this hearing.

15 Safer Chemicals Healthy Families joins a long day  
16 of voices in opposition to this proposal. Many of  
17 our coalition partners and a number of respected  
18 scientists have offered strong cases for  
19 withdrawing the proposal already today and I thank  
20 those speakers for their comments and will try to  
21 keep my own comments brief.

22 The proposed rule is irreparably flawed and



1 misconceived. In the name of transparency it will  
2 prove needlessly burdensome, requiring unnecessary  
3 and costly procedures of EPA scientists that are  
4 counter to the Agency's longstanding application  
5 to base public health decisions on the best  
6 available science. Under this proposal without a  
7 guarantee of full public access, the study will be  
8 considered unreliable and will play no role in  
9 assessing a chemical's health effects on human  
10 health. This ignores the many ways in which the  
11 scientific community, regulators and the public  
12 have traditionally determined the quality and  
13 relevance of study results. It also disregards  
14 the way that hard-working EPA science  
15 professionals have taken seriously their charge to  
16 use the best available science in their decision-  
17 making. Safer Chemicals Healthy Families played a  
18 key role in the reform of the Toxic Substances  
19 Control Act which requires that EPA use the best  
20 available science in the review and management of  
21 toxic chemicals. As EPA begins to review the tens  
22 of thousands of chemicals already on the market we

1 are concerned that they be able to take into  
2 consideration all information that is reasonably  
3 available. For the fence line communities that  
4 have been harmed by their exposures to chemicals,  
5 for the families who have lost loved ones to  
6 asbestos-related diseases, for the firefighters  
7 exposed to a soup of toxics as they protect our  
8 communities, and to children who are born pre-  
9 polluted by a range of industrial chemicals, the  
10 stakes are high for these evaluations. EPA  
11 scientists working on risk and hazard assessments  
12 collect and review thousands of studies.  
13 Published reports of these studies typically do  
14 not include all the underlying data. This  
15 proposal would add the burdensome requirement in  
16 such cases that EPA contact the researcher,  
17 determine the nature and extent of the underlying  
18 data, and put in place a mechanism for the public  
19 to access the data. Many before me have called  
20 this proposal a solution in search of a problem,  
21 but it bears repeating. In proposing this rule  
22 EPA leaders have painted a stark picture of EPA

1 reliance on so-called secret science developed  
2 behind closed doors, but is this really so? EPA  
3 science assessments generally include an  
4 exhaustive and critical review of relevant studies  
5 and a full explanation of how they are being  
6 interpreted. Extensive information about each  
7 study is typically part of the public record, even  
8 if all underlying data may not be included. EPA  
9 assessments are normally subject to public comment  
10 and independent peer review and members of the  
11 regulatory community are free at any time to  
12 replicate studies they deem flawed or to  
13 independently seek access to underlying data and  
14 reanalyze them. In short, the so-called problem  
15 that the proposed rule seeks to fix is largely  
16 fiction.

17 In conclusion, EPA should withdraw this proposed  
18 rule. The public health stakes are just too high.  
19 Thank you.

20 MS. HUBBARD: Thank you.

21 MR. KIRBY: My name is Ben Kirby. I'm an  
22 environmental engineer with a doctorate and

1 master's degree in environmental engineering from  
2 Virginia Tech and George Mason University  
3 respectively. I'm representing Hall and  
4 Associates, and environmental consulting firm in  
5 Washington D.C. We support the application of  
6 this rule to EPA's environmental impact analyses,  
7 particularly TMDLs, or Total Maximum Daily Loads,  
8 and NPDES or National Pollutant and Discharge  
9 Elimination permits under the Clean Water Act.  
10 These legally binding permits include ethylene  
11 limits for wastewater treatment facilities for  
12 pollutants such as lead, mercury or phosphorus.  
13 Slight alterations in these permit limits can cost  
14 a single wastewater facility tens of millions of  
15 dollars, the cost of which is passed on to  
16 individual local rate bearers. These permit  
17 limits are supposed to be derived in a manner  
18 similar to dose-response relationships as  
19 mentioned in the rule where, for example, a lower  
20 level of the pollutant in the discharge will  
21 result in a measurable increase in receiving water  
22 quality working with health. However, we have

1 dealt with instances throughout the country where  
2 environmental agencies have based regulations on  
3 publically unavailable data, outdated science or  
4 faulty science, even in the face of data or  
5 studies which indicate stringent permit limits  
6 imposed by these agencies are not anticipated to  
7 result in any quantifiable environmental or human  
8 health benefit despite the cost. We hope that  
9 this rule would remedy these shortcomings.

10 We also strongly support the use of independent  
11 expert peer reviews as an additional level of  
12 review for fiscal regulatory science. Our firm  
13 has been involved in independent peer reviews of  
14 various Clean Water Act related EPA regulations  
15 which have concluded that the technical basis for  
16 EPA's regulations and permit limits were  
17 scientifically indefensible. Had no peer reviews  
18 occurred, these regulations would have imposed  
19 hundreds of millions of dollars of wastewater  
20 treatment costs to rate bearers with no  
21 anticipated benefit. As a science-based Agency  
22 applying science-based statutes it is critical to

1 both receiving water quality and rate payers  
2 throughout the country that these permits and  
3 regulations are based on sound science and not  
4 speculation.

5 In this regard, we support application of EPA's  
6 proposed rule to Clean Water Act regulations.

7 Thank you for the opportunity to come.

8 MS. HUBBARD: Thank you.

9 MS. STOBERT: Speaker A, Dan Lipinski, you are now  
10 invited to speak at either the table or the  
11 podium.

12 MR. LIPINSKI: Good afternoon, I'm Congressman Dan  
13 Lipinski of the Third District of Illinois. I'm  
14 here to ask the EPA to rescind the proposed rule.  
15 The origins of the rule are in the 2014 House Bill  
16 called, the Secret Science Reform Act, which I  
17 voted against in that year and again in 2015, and  
18 when it was reintroduced as the Honest Act in  
19 2017. The goal of these bills and of the proposed  
20 rule, contrary to its name, is to limit  
21 availability of science to inform regulatory  
22 decision-making. I'm disappointed to see the

1 Trump administration circumventing the will of  
2 Congress, attempting to administratively implement  
3 policies that cannot pass through the Legislature.  
4 On June 7th of this year, I joined 102 of my  
5 colleagues from both political parties in sending  
6 a letter to then Administrator Pruitt urging him  
7 to withdraw the proposed rule. My comments today  
8 build on that earlier commentary and expand on my  
9 opposition to this misguided policy.

10 EPA's admission, as it appears on the Agency  
11 website, is to protect public health and the  
12 environment and to ensure that national efforts to  
13 reduce environmental risks are based on the best  
14 available scientific information. The proposed  
15 rule works in direct opposition to that mission by  
16 requiring that the data underlying the scientific  
17 studies used in informed regulatory actions are  
18 available to the public. The proposed rule will  
19 exclude vast quantities of valuable research  
20 including that based on personal health data,  
21 confidential business information, and even older  
22 studies whose authors or data sets are no longer

1 available. In some cases, the rule will require  
2 the exclusion of the best available scientific  
3 information. To make matters worse, this rule  
4 would grant the administrator wide latitude to  
5 exclude studies from its provisions, enabling him  
6 or her to cherry pick studies in order to affect  
7 the outcome on the rulemaking process. There is  
8 no basis in any of the statutes under which EPA  
9 operates for giving an administrator such broad  
10 authority to choose which science is used in  
11 rulemaking.

12 Let me give an example of how the proposed rule  
13 could affect a future EPA rulemaking. EPA is  
14 planning to update its lead and copper rule in the  
15 near future the rule that limits the levels of  
16 these metals in drinking water. This update  
17 cannot come soon enough. We all know about the  
18 drinking water crisis in Flint, Michigan. Chicago  
19 and Washington D.C., as well as many other cities  
20 around the country, are finding troubling levels  
21 of lead in drinking water right now. Most of what  
22 we know about the health effects of lead exposure



1 comes from older studies of children with high  
2 levels of lead in their blood. Yet these studies  
3 may be excluded from consideration, both because  
4 their data are not publically available and  
5 because it would be unethical to replicate them.  
6 As a result, it is possible that an Agency could  
7 conclude that there is no evidence that lead is  
8 bad for you and, therefore, does not need to be  
9 updated. This would be a tremendous mistake. I  
10 have spent my career in Congress working to enable  
11 science-based decision-making in government. The  
12 proposed rule represents a significant step  
13 backward and I urge the Agency, in the strongest  
14 terms possible, to rescind it. Thank you.

15 MS. STOBERT: Speaker 43a, Mahealani Daniels. If  
16 you'd come to the speakers table.

17 MS. DANIELS: Good afternoon. My name is  
18 Mahealani Daniels and I'll spell that M-A-H-E-A-  
19 L-A-N-I, D-A-N-I-E-L-S. I would just like to  
20 thank you for allowing me the opportunity to share  
21 my comments in opposition to the EPA's new policy  
22 on so-called transparency. The EPA must utilize

1 the best available science to inform its actions  
2 in the creation of environmental and public health  
3 laws. Judicial precedents establish that the best  
4 available science is all existing scientist  
5 evidence relevant to the decision. In further  
6 supporting these precedents, the EPA's own  
7 regulations state that the best available science  
8 would be information that the EPA possesses or  
9 could reasonably generate, obtain or synthesize,  
10 whether or not that be information that is  
11 confidential business information that is  
12 protected from public discourse. While increasing  
13 transparency and ending an era of secrete science  
14 are two statements that publically resonate as  
15 appealing advances, when digging deeper it is  
16 clear that the EPA's implementation of these  
17 standards would do just the opposite and would  
18 actually violate judicial precedent as well as the  
19 Agency's own regulations. A majority of  
20 confidential health data can't be used with the  
21 EPA's new standards of transparency, thus limiting  
22 the scientific evidence they could use to inform

1 studies and standards. Since personal health data  
2 informs the production of environmental laws that  
3 protect public health, it's exceptionally  
4 important that the EPA continues to use it.  
5 For example, a recent study released by MIT  
6 demonstrates that 200,000 early deaths occur every  
7 year in the United States as a result of air  
8 pollution. Utilizing data on patients' health is  
9 not only necessary to establish the aforementioned  
10 research, but is also necessary when the EPA goes  
11 to set standards on environmental and pollution  
12 regulations that affect the lives and health of  
13 millions of Americans. I am hopeful that just as  
14 a majority of Americans are guided by their own  
15 personal values to abide by the laws established  
16 by our government, the EPA will too decide to  
17 function under judicial precedents and be guided  
18 by its principle to utilize the best available  
19 science. And with that, I thank you so much for  
20 your time.

21 MS. STOBERT: Thank you. I believe that was the  
22 last speaker for this session, so we will recess

1 now and resume the hearing at 4:00 p.m. Thank  
2 you.

3 [Off the record 3:26 p.m.]

4 [On the record 4:00 p.m., Evening session.  
5 Substitution of panel members.]

6 MR. RODAN: Okay, so welcome back at 4:00. Let us  
7 commence session three of this public hearing.  
8 Hello and thank you for coming. This public  
9 hearing is now in session. My name is Bruce Rodan  
10 and I am in EPA's Office of Research and  
11 Development. I will be one of the hearing  
12 officials of this two-hour period. Lou D'Amico,  
13 also from the Office of Research and Development  
14 will be joining me. We also have Nanishka, Lauren  
15 and Lesley from SC&A Incorporated helping with  
16 logistics.

17 The purpose of today's hearing is to accept public  
18 comments on the EPA proposed rule, "Strengthening  
19 Transparency in Regulatory Science." EPA is  
20 accepting comments on all aspects of the proposed  
21 regulation. This public hearing is a formal legal  
22 proceeding and the testimonies will become part of

1 the administrative record on which EPA will base  
2 its decision. Public notice of this hearing was  
3 published in the Federal Register on April 30,  
4 2018 (83 FR 18768). EPA is proposing this rule  
5 under authority of 5 U.S. Code 301 in addition to  
6 the authorities listed in the proposed rule  
7 document dated April 30, 2018.

8 My role is to ensure that the EPA received your  
9 comments in an orderly fashion. Although EPA  
10 panel members may ask clarifying questions the  
11 intent of this hearing is to listen to your  
12 comments, not to discuss or debate the proposal.  
13 Now for a few housekeeping items and ground rules.  
14 Please refrain from interrupting speakers or  
15 asking questions. Shouting and noisemaking or any  
16 disruptive conduct which prevents speakers or  
17 hearing officials from being heard are not  
18 permitted. Please listen quietly so that we can  
19 hear each testimony and to ensure that the court  
20 reporter is able to record comments accurately and  
21 listeners on the phone hear the oral testimonies.  
22 For everyone's awareness, this hearing is open to

1 the press and we may have members of the media  
2 present with us today. This event is also open to  
3 any form of recording, video, audio and photos.  
4 We ask that you not cause any disruption to those  
5 testifying or observing the hearing. There was no  
6 formal lunch break scheduled. You may leave and  
7 return to the hearing. Please note that you will  
8 need to clear security again, so please be aware  
9 of time and the rain outside. If you'd like to  
10 make an oral comment in today's hearing and did  
11 not pre-register to speak, please see the hearing  
12 staff at the registration table positioned at the  
13 entrance of the room. If you would like to  
14 provide a written comment to the official record,  
15 you may hand submit it to the EPA staff today or  
16 mail, fax or email your comment. See staff at the  
17 registration table for instructions on how to  
18 submit written comments. There is a comment box  
19 at the registration table where you can leave hard  
20 copies of your oral testimony or written comments.  
21 All comments received will be included in the  
22 official docket. If you submit written comments

1 it is not necessary for you to give the same  
2 comments orally. Written comments and oral  
3 testimonies will receive equal consideration by  
4 EPA in preparing the final rulemaking decision.  
5 EPA has extended the comment period. Written  
6 comments must have been received on or before  
7 August 16, 2018. EPA will only consider comments  
8 related to the proposed rule, "Strengthening  
9 Transparency in Regulatory Science," so please  
10 refrain from making comments that are not related  
11 to this action. EPA will not provide responses  
12 during the hearing, rather EPA will prepare a  
13 written summary of the comments received that  
14 includes responses. The Response to Comments,  
15 RTC, document will be available at the time EPA  
16 issues its final decision. EPA will not make a  
17 final decision until all comments submitted during  
18 the public comment period have been considered.  
19 The hearing is being recorded by a court reporter  
20 who will be preparing a verbatim record of the  
21 hearing. Please speak clearly and slowly into the  
22 microphone so that the court reporter can record

1 your comments accurately. A copy of the  
2 transcript will be placed in the docket. The  
3 hearing is also being audio streamed through Adobe  
4 Connect and via phone lines.  
5 The hearing is scheduled from 8:00 a.m. to 8:00  
6 p.m., or one hour after the last registered  
7 speaker has spoken, whichever is earlier, and is  
8 divided into three sessions: 8:00 a.m. to 12:00  
9 p.m., 12:00 p.m. to 4:00 p.m., and this session  
10 4:00 p.m. to 8:00 p.m. Public restrooms are  
11 located down both sides of the hall and we have  
12 staff to escort you. Please note the location of  
13 the emergency exits.  
14 Please take a moment to silence your cell phone  
15 (I've done that). Speakers should have been given  
16 a sticker upon check-in that lists your assigned  
17 session. If you plan to speak and have not  
18 received a sticker, please be sure to check in at  
19 the registration table. For the current 4:00 p.m.  
20 to 8:00 p.m. session, the speaker sticker collar  
21 is blue. Speakers will be called to the speakers'  
22 table located directly across from the EPA panel



1 members' table in pairs by their speaker number.  
2 When it is your turn to speak, please come up to  
3 the table and watch your step. State and slowly  
4 spell your name for the record, and if you are  
5 appearing on behalf of someone or an organization.  
6 If you are not in the room when it is your turn to  
7 speak I will recall you after all other speakers  
8 have made their oral comments. Each speaker will  
9 be allotted five minutes for remarks. Elected and  
10 appointed government officials may be provided  
11 additional time since they represent large groups  
12 of constituents. Speakers will be notified when  
13 their time has ended. Our timekeeping system or  
14 speaker timer consists of green, yellow and red  
15 lights. When you begin to speak, the green light  
16 will come on to indicate you have five minutes to  
17 speak. The yellow light indicates that you have  
18 one-minute left to speak. When the red light  
19 appears your five minutes are over. At that  
20 moment, if needed, I will politely interrupt you  
21 and ask you to wrap up your testimony. So, let's  
22 begin.

1 Speakers Numbers 1 and 2 in the afternoon session,  
2 please come forward and take a seat at the  
3 speakers' table. We will start with Speaker  
4 Number 1. Again, please speak directly into the  
5 microphone and state and spell your name for the  
6 record.

7 MR. SHIPPS: Thank you for this opportunity to  
8 provide public comments on EPA's proposed rule,  
9 "Strengthening Transparency in Regulatory  
10 Science." My name is Karl Shipps. That's spelled  
11 K-A-R-L, S-H-I-P-P-S. I live in New Carleton,  
12 Maryland, and I'm speaking as an individual. I am  
13 not employed by EPA or an EPA contractor, I am  
14 simply a very concerned person. I am a Navy  
15 submarine veteran, a grandfather, and have a  
16 master's degree in applied physics from the Johns  
17 Hopkins University. Because my time is limited I  
18 will confine my remarks today to three  
19 observations about the proposed rule and two  
20 recommendations.

21 My first observation is this: The proposed rule  
22 is based on a faulty premise, namely that only

1 studies whose underlying data are publically  
2 available sufficient to support replication should  
3 be considered by EPA as it develops regulations  
4 governing clean air, clean water and exposure to  
5 toxic substances and pesticides. The rule's  
6 premise, which was also the premise of the Secret  
7 Science Reform Act and the Honest Act, cannot  
8 stand. There are valid peer-reviewed studies that  
9 should be included in EPA's regulatory work even  
10 though their underlying data sets cannot be  
11 released to the public. Two of the most widely  
12 known are the Harvard School of Health's Six  
13 Cities Study, and the American Cancer Society's  
14 Cancer Prevention Study II. Those studies were  
15 revalidated by the Health Effects Institute in  
16 July of 2000 using an independent oversight board  
17 and a competitively selected analysis team. They  
18 remain valuable today. Since the proposed rule is  
19 based on a faulty premise, I recommend that it be  
20 withdrawn. A new rule addressing concerns about  
21 reproducibility and replicability should be  
22 developed in public with participation by the

1 scientific community, the environmental community  
2 and industry. The rule developers should avail  
3 themselves of the results of the ongoing  
4 reproducibility and replicability study being  
5 conducted by the National Academies of Sciences.  
6 That study will report in December 2018.  
7 Perhaps the EPA will not take my recommendation to  
8 withdraw the proposed rule. In that event, my  
9 second observation is germane. My second  
10 observation is that the EPA administrator is given  
11 extraordinary powers under Section 30.9 of the  
12 proposed rule for new EPA regulations or for  
13 regulations undergoing periodic update, the  
14 administrator could waive or not waive the  
15 provisions of the rule. This puts potentially  
16 thousands of studies underpinning EPA's  
17 regulations at risk of being discarded out of hand  
18 at the administrator's whim. The result would not  
19 be the best science and it would reduce public  
20 confidence in EPA rulemaking, not increase it.  
21 Based on that prospect, I recommend what the Texas  
22 Commission on Environmental Quality recommended,

1   namely to give governing authority for granting  
2   exceptions to the proposed data Transparency Rule,  
3   as well as the oversight of raw data collection,  
4   storage and access, to an external entity or  
5   entities to ensure independence and objectivity.  
6   You can see Docket comment EPA-HQ-OA-2018-0259-  
7   2426.

8   My final observation is that the scientific  
9   community was not consulted as the proposed rule  
10   was prepared. Even EPA's own Science Advisory  
11   Board was not consulted, learning about the rule  
12   only through press accounts and publication in the  
13   Federal Register. The joint statement on the EPA  
14   proposed rule and public availability of data in  
15   the 30 April edition of *Science* disagrees with the  
16   proposed rule. EPA should heed the concerns being  
17   voiced by the scientific community. Thank you for  
18   your attention.

19   MS. WHITE: Good afternoon. My name is Dr. White,  
20   W-H-I-T-E, on behalf of the American Chemistry  
21   Council's Formaldehyde Panel. I appreciate the  
22   opportunity to provide feedback on EPA's proposed

1 rulemaking. Utilization of transparent, objective  
2 and modern scientific approaches to draw  
3 conclusions regarding human health risks is  
4 critical to developing sound regulatory decisions.  
5 Throughout the EPA the application of scientific  
6 information to underpin regulatory activities has  
7 often been inconsistent and unclear, leading to  
8 concerns regarding how the Agency incorporates the  
9 best available science, evaluates the quality of  
10 that science, and applies 21st century knowledge  
11 concerning cause and effect. The panel has  
12 regularly met with EPA scientists related to the  
13 IRIS program regarding its subjective use of  
14 available science and resistance to moving away  
15 from default linear low-dose extrapolations, even  
16 when published scientific data support other  
17 modeling alternatives, including threshold-based  
18 approaches. This stance has often led to the  
19 generation of EPA values that are below natural  
20 background levels and not indicative of human  
21 health risks associated with real world exposures.  
22 Perhaps the most telling example can be found in

1 the case of formaldehyde, where a draft IRIS  
2 assessment sets values suggesting that human  
3 breath could pose a cancer risk. Formaldehyde has  
4 been the subject of scientific study for years and  
5 large bodies of evidence show that the levels of  
6 formaldehyde most people encounter on a daily  
7 basis do not cause adverse health effects, a  
8 conclusion reached by several international  
9 agencies using alternative models other than a  
10 default linear modeling approach. The evidence  
11 demonstrates the biological implausibility of any  
12 relationship between formaldehyde and leukemia, a  
13 threshold mode of action for any potential adverse  
14 health effects, and the importance of mode of  
15 action information for understanding potential  
16 impacts. We are encouraged by the Agency's  
17 proposed rule's recognition that there is growing  
18 empirical evidence of nonlinearity and that the  
19 use of default models without consideration of  
20 alternatives can obscure the scientific  
21 justification for EPA actions. This  
22 acknowledgement by EPA is especially relevant to

1 formaldehyde given the several decades of  
2 published literature illustrating preserved  
3 thresholds for both noncancerous and cancerous  
4 status.

5 In addition to the significant research and the  
6 development of a biologically-based dose response  
7 model for formaldehyde that also integrates the  
8 available science and provides results  
9 inconsistent with default linear dose response  
10 modeling approaches typically apply for  
11 carcinogenic end points. The importance of using  
12 nonlinear and biologically based dose response  
13 modeling, when the published data supports it,  
14 cannot be overstated. In this review of a 2010  
15 draft IRIS formaldehyde assessment, the National  
16 Academy of Sciences noted the development of  
17 several models to evaluate the risks associated  
18 with formaldehyde exposure and recommended that  
19 alternatives to EPA's default linear low-dose  
20 extrapolation approach be considered.

21 In addition to incorporating modern scientific  
22 knowledge, we also recognize the importance of



1 adequate transparency in data access and ensuring  
2 regulatory decisions are based on high quality and  
3 reproducible data. For more than a decade, the  
4 panel has conducted scientific research engaged  
5 directly with EPA's IRIS program to understand the  
6 scientific information being relied on to draw  
7 conclusions regarding potential for health  
8 effects. The panel has experienced considerable  
9 difficulty in understanding what data is being  
10 relied on and how the Agency has ensured the  
11 highest quality and most relevant science is  
12 informing its decisions. Importantly, in multiple  
13 instances, sometimes after years of requests, once  
14 the underlying data was made available, it was  
15 found to have significant methodological and  
16 quality issues. In several cases, the findings,  
17 when reevaluated, did not support the original  
18 study's conclusions. The issues identified were  
19 not minor and highlight the need for greater  
20 transparency and for EPA to have a mechanism in  
21 place to evaluate the quality and reproducibility  
22 of the data being relied upon for decisions.

1 One notable example involved over six years of  
2 repeated requests to access all the relevant data  
3 from a National Cancer Institute study which was  
4 relied upon by the IRIS program to draw  
5 conclusions regarding formaldehyde and leukemia.  
6 The data were requested from NCI for the purpose  
7 of validating the author's conclusions and the  
8 evaluation of that underlying data found that  
9 changes reported by the study authors were not  
10 exposure dependent and they did not follow their  
11 own stated protocol. As demonstrated by  
12 formaldehyde example, when the data access is  
13 limited and modern scientific approaches aren't  
14 used to move away from default assumptions, the  
15 results can be conclusions that lack scientific  
16 rigor and potentially provide the public with an  
17 inaccurate picture about everyday chemicals which  
18 have been used safely for years.

19 I hope that you find these comments useful and I  
20 will provide a detailed set of comments by the  
21 August deadline.

22 MR. RODAN: Thank you. I believe we have another

1 speaker.

2 MS. HALL: Right, I don't have any details on that  
3 yet.

4 MR. RODAN: What?

5 MS. HALL: I don't have any details on who it is  
6 or -- standby. Speaker 3, Walter Tsou, please  
7 come up to the speakers' table.

8 MR. RODAN: Around the far side. Take care of the  
9 wire. I think you provided a copy at the front  
10 desk, we'll take it here. Watch out for the cord  
11 there, we don't want you falling over. Okay, so,  
12 we went through some long instructions. You have  
13 five minutes.

14 MR. TSOU: Okay. I'll be less. My name is Dr.  
15 Walter Tsou. I serve as Executive Director of  
16 Philadelphia Physicians for Social Responsibility  
17 and a past president of the American Public Health  
18 Association. Thank you for this opportunity to  
19 testify on "Strengthening Transparency in  
20 Regulatory Science". As many of my colleagues  
21 have noted today, while the goal of transparency  
22 in how studies are conducted, and the ability to

1 reproduce scientific results are important, it can  
2 offer a politically motivated administration a  
3 convenient excuse for eliminating or ignoring  
4 scientific studies that may go against the wishes  
5 of a powerful industry group. All one has to do is  
6 demand that the data sets be handed over for  
7 "further scrutiny" or demand that the study be  
8 repeated before basing a regulation on the study  
9 in question.

10 The very nature of longitudinal public health  
11 studies where health and toxins intersect are, by  
12 design, large, expensive and require years or  
13 sometimes decades before results are found. Sample  
14 sizes can often number in the tens of thousands to  
15 millions of data points and may need to be  
16 collected over many years before a statistically  
17 significant finding is identified. For example,  
18 Curry, et al studied in Pennsylvania babies who  
19 lived within 1 kilometer of active fracking wells.  
20 She had to review over 1.1 million birth records  
21 before demonstrating the relationship between  
22 living close to gas wells and low birth weight

1 babies. Because these studies are so big, they are  
2 often too expensive to repeat. In our state of  
3 Pennsylvania, scientific research on fracking is  
4 actively stymied or suppressed. In a state where  
5 billions are made on gas drilling, only one part  
6 time contractor at the Health Department collects  
7 data on health complaints from fracking. Those who  
8 do have health complaints have to sign non-  
9 disclosure agreements and not cooperate with any  
10 research in order to get lifesaving water to  
11 drink. This I consider extortion and this practice  
12 is common in the industry in order to suppress any  
13 health studies on the dangers of fracking. If the  
14 transparency regulation was in place, all health  
15 studies on fracking would be simply not considered  
16 because the research could not be conducted due to  
17 non-disclosure agreements.

18 Today there is no reputable scientist that doesn't  
19 believe in the harmful effects of smoking. The  
20 health studies on smoking were 15 years in the  
21 making before the Surgeon General released his  
22 landmark 1964 report and except for a handful of

1 EPA administrators, there is no reputable  
2 scientist who doesn't believe that climate change  
3 is real and is man-made. The studies on climate  
4 change and health have been known since Exxon  
5 wrote about it in 1977. If these transparency  
6 rules were in place when the EPA was founded,  
7 smoking would still be in airplanes and no one  
8 would have heard of "greenhouse gases" or "global  
9 warming", the greatest threat to our planet's  
10 existence.

11 Since the founding of the EPA, independent  
12 scientific research has been the foundational  
13 basis of your mission. Science is the cross  
14 before the corporate devil. This Transparency Rule  
15 would destroy the confidential nature of research  
16 and make the burden of conducting research more  
17 difficult and expensive. Finally, the real purpose  
18 of these rules is to reverse regulations on  
19 industries who have been harmful to public health.  
20 We should let science speak for itself and speak  
21 the truth and the EPA should hear from all  
22 scientific studies, not just the ones the industry

1 wants you to listen to. Thank you for your time.

2 MR. RODAN: Thank you very much. So, do we have  
3 any other registered speakers waiting? So we'll  
4 have a short recess and we have a one hour clock  
5 ticking. The time now is 4:22.

6 [Off the record 4:22 p.m.]

7 [On the record 4:40 p.m.]

8 MR. RODAN: We are hereby reconvening this public  
9 hearing. Come up to the -- go to the right there,  
10 there's some steps.

11 MS. HALL: Speaker Number 4, Mark Mitchell.

12 MR. BRUCE RODAN: Thank you, you'll have five  
13 minutes of time and you'll get a green light for  
14 the first four, an orange light and then a red  
15 light when the five minutes is up.

16 MR. MITCHELL: Okay, thank you. Thank you for  
17 this hearing. My name is Mark Mitchell. I'm a  
18 public health trained environmental health  
19 physician. I am testifying on behalf of the  
20 National Medical Association which represents the  
21 interests of more than 30,000 African-American  
22 physicians and our patients. We are a member

1 society of the Medical Society Consortium on  
2 Climate and Health.

3 I got into environmental health because I was  
4 concerned about the health effects of environment  
5 on public health. As a public health official, I  
6 saw that a lot of the diseases that are common,  
7 particularly those that are common in communities  
8 of color, are associated with the environment. We  
9 are opposed to the misnamed proposed new rule on  
10 "Strengthening Transparency in Regulatory  
11 Science." The proposed rule prohibits the Agency  
12 from setting regulations that are supported in  
13 part or in whole by data that is not publically  
14 available for reanalysis or that cannot be  
15 replicated. This rule, if enacted would limit the  
16 consideration of perfectly good science in the EPA  
17 regulatory process. What's more, it's retroactive  
18 so the current regulations that are based on  
19 previous studies that can no longer be replicated  
20 for ethical or other reasons, could then be  
21 voided. As physicians, we are particularly  
22 concerned about our legal and ethical obligation



1 to protect patient privacy under the Health  
2 Insurance Portability and Accountability Act of  
3 1996, otherwise known as HIPAA. We believe that  
4 patient health data should be considered in EPA  
5 regulations because it's necessary to consider the  
6 health effects of environmental exposures in order  
7 to protect human health, and that we should also  
8 be able to guarantee patient privacy that should  
9 be protected.

10 Currently, we do this in research publications  
11 through the peer review process. The peer review  
12 process has worked well to ensure an adequate  
13 level of transparency while allowing science to  
14 advance unencumbered. We do not need to reduce  
15 the health protection that environmental  
16 regulations provide in the name of so-called  
17 "transparency." Thank you for this opportunity to  
18 testify.

19 MR. RODAN: Thank you. So, we'll go into another  
20 short recess, or maybe an hour, at 4:44. Thank  
21 you.

22 [Off the record 4:44 p.m.]

1 [Off the record 5:44 p.m.]

2 MR. RODAN: It's 5:44. I'll read the closing  
3 statement. Thank you for taking the time today to  
4 share your comments on the EPA proposed rule. The  
5 time is now 5:45 p.m. No additional members of  
6 the public have registered or are waiting to  
7 speak. Therefore, this hearing is now officially  
8 closed. Thank you.

9 [Off the record 5:45 p.m.]

10 Whereupon, the above-entitled matter is concluded.

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1 CERTIFICATE OF SHORTHAND REPORTER - NOTARY PUBLIC

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3 I, NaCorey Nichols, the officer before whom the  
4 foregoing deposition was taken, do hereby certify  
5 that the foregoing transcript is a true and  
6 correct record of the testimony given; that the  
7 witness was duly sworn by me; that said testimony  
8 was taken by me electronically and thereafter  
9 reduced to typewriting under my direction; and  
10 that I am neither counsel for, related to, nor  
11 employed by any of the parties to this case, and  
12 have no interest, financial or otherwise, in its  
13 outcome.

14 IN WITNESS WHEREOF, I have hereunto set my hand  
15 and affixed my notarial seal this  
16 30th day of July, 2018.

17

18 My commission expires:

19 October 14, 2021

20 NOTARY PUBLIC IN AND FOR THE

21 DISTRICT OF COLUMBIA

1 CERTIFICATE OF SHORTHAND REPORTER - NOTARY PUBLIC

2

3 I, Gary Euell, the officer before whom the  
4 foregoing deposition was taken, do hereby certify  
5 that the foregoing transcript is a true and  
6 correct record of the testimony given; that the  
7 witness was duly sworn by me; that said testimony  
8 was taken by me electronically and thereafter  
9 reduced to typewriting under my direction; and  
10 that I am neither counsel for, related to, nor  
11 employed by any of the parties to this case, and  
12 have no interest, financial or otherwise, in its  
13 outcome.

14 IN WITNESS WHEREOF, I have hereunto set my hand  
15 and affixed my notarial seal this  
16 30th day of July, 2018.

17

18 My commission expires:

19 March 14, 2023

20 NOTARY PUBLIC IN AND FOR THE

21 DISTRICT OF COLUMBIA